

## ABSTRACT OF THE DISCLOSURE

A power-save QSTA notifies an Access Point (AP) that its operating in a automatic power-save delivery (APSD) mode and negotiates a periodic wakeup schedule and a scheduled startup time with the AP. Wakeup times are synchronized with the 802.11 Timer

- 5 Synchronization Function (TSF). The AP automatically sends frames to the QSTA when it determines the QSTA is in an awake state, otherwise downlink frames are buffered. The AP uses a combination poll+EDCF access method wherein at the start of each wakeup period the AP sends a poll to the QSTA, the poll having a flag that indicates to the QSTA if the AP has a downlink fame buffered for the QSTA. In addition, a Proxy ARP Server in an AP maintains
- 10 IP/MAC bindings for associated clients so that when the AP receives a proxy ARP request for a client, the AP may respond for the client.